GORYAYNOV, V.I., kand.tekhn.nauk, dots.

Determining the kinematic parameters of crankshaft presses with speed-adjusting machanisms. Sbor. MOSSTANKIN no. 5:57-68
160. (MIRA 14:2)

(Power presses) (Machinery, Kinematics of)

GORYAYNOV, V.I., kand.tekhn.nauk, dots.

Kinematics of a coining press. Sbor. MOSSTANKIN no. 5:69-75
[60. (MIRA 14:2)

(Power presses) (Machinery, Kinematics of)

45244

5/771/61/000/000/005/006

1.1310

AUTHORS: Goryaynov, V.I., Lanskoy, Ye.N., Candidates of Technical Sciences.

TITLE: Crank-driven equipment.

SOURCE: Sostoyaniye kuznechno-shtampovochnogo proizvodstva.

Ed. by V.T. Meshcherin. Moscow, VINITI, 1961, 220-292.

TEXT: The paper provides a state-of-the-art survey of the design, construction, and employment of crank-type equipment for forging and press-forming. The present abstract is focused primarily on the section dealing with developments in the USSR and the Soviet-bloc area. Among the current developmental trends in this field, the aggregatization of crank-type machines and the assembling of machines of any desired size from standard component parts by the Barnaul factory of mechanical presses (USSR) and the Bad-Salzung plant (GDR) are cited. The multidisk clutch of the Voronezh plant imeni Kalinin is described and illustrated (pp. 228-230). The NKMZ (New Kramatorsk machine-building plant) produces mechanical forging presses with an applied force of 4,000, 6,300, and 8,000 tons. A general-view photograph of the 8,000-ton press is shown in Fig.27. The carcass consists of welded components bolted into a dismountable aggregate. The press has a double-acting drive. Two independent electric motors (EM) drive the machine via

Card 1/3

Crank-driven equipment.

S/771/61/000/000/005/006

two disk-type friction clutches contained within the gears on either side of the crankshaft. The clutches are actuated electropneumatically. Along with each clutch there is a band brake with pneumatic brake releases. The throw is mechanically regulated by an independent EM. The lower pusher-ejector is hydraulically driven. The machine has a central grease lubrication. The high rigidity of the press is reflected in its adequate accuracy. The height of the press is 14,400 mm, the stroke 507 mm, the number of strokes per minute 35. All New Kramatorsk forging presses employ the original welded stand. The Voronezh plant of heavy mechanical presses produces crank-driven forging presses from 630 to 2,500 tons. The stand is welded out of cast-steel and thick-sheet rolled components. The drive operates through a disk-type friction clutch located on the main shaft; a band brake is attached to the opposite end of the shaft. Clutch and brake are electropneumatically actuated. The lower pusher-ejector on the large presses (2,000 and 2,500 tons) is hydropneumatically actuated. The number of strokes per minute in these presses is 60-90, their height above the floor is 4,270-6,200 mm, their weight 35-143 tons. A front and side-view sketch is shown. The stand of the 4,000-ton embossing press produced by the NKMZ (p. 268) consists of two parts connected by tie bolts. The table and both columns are cast of inoculated cast iron. The electropneumatically actuated disk-type friction clutch and analogous brake are installed on the first

Card 2/3

Drop-forging equipment.

S/771/61/000/000/004/006

from free forging toward die forging, the scope of free forging appears to be primarily focused on repair plants. The GOST All-Union Standard limits the weight of dropping parts of forge hammers to 5 tons. Only exceptionally are larger forge hammers made. Pneumatic hammers are more economical and more highly productive than steam-air hammers; hence the construction of pneumatic hammers with 1- to 2-ton dropping parts is entirely feasible (USSR hammers up to 0.75t are made, with a GOST maximum of 1 ton). Manipulators must be developed and introduced. The experience of Uralmashzavod and foreign firms is encouraging. Die forging: For small batches of relatively small forgings it is advisable to construct and develop inexpensive universal die-forging single-acting hammers with a weight of the dropping mass of up to 4 tons. These may be chain-, air-, or hydraulically driven. For parts 15 kg or heavier and parts made of high-temperature steels, double-acting steam-air hammers with 5- to 20-ton dropping weights are to be used. The latest improvements should be applied to the design of such hammers, including heavier and stronger anvils, optimal column design, control boosters, etc. The hammer should be erected on vibration-insulating foundations. For the final dieforging of otherwise preformed heavy billets, anvilless hammer with impact energies of 10 ton-m or more should be used. For extra-heavy billets (200-300 kg or more) anvilless hammers with impact energies of up to 150 ton-m are recommended. There are 19 figures and 19 references (2 Russian-language Soviet, 3 German, and

ASSOCIATION: None given.

GORYAYNOV, V.I., kand. tekhn. nauk, dotsent

Determining drawing press force parameters according to industrial specifications. Sbor. MOSSTANKIN no.7:122-129 '64.

(MIRA 17:11)

GORYAYNOV, V.V.

AUTHORS:

Kosinskiy, V.M., Engineer; Goryaynov , V.V. 117-58-6-22/36

TITLE:

The Komsomol-Innovators of the Yuzhuralmashzavod (Komsomol'

tsy-novatory Yuzhuralmashzavod)

PERIODICAL:

Mashinostroitel', 1958, Nr 6, pp 32-33 (USSR)

ABSTRACT:

A.M. Karyukin and N.M. Goryunov, members of the Komsomol, who made some innovations in the production process of the South Urals Machine Construction Plant, are mentioned. Production has been increased 2 times by these innovations. The plant produces rolling-mill equipment. There is one photograph.

ASSOCIATION: Yuzhno-ural'skiy mashinostroitel'nyy zavod (South-Urals Machine

Construction Plant)

AVAILABLE:

Library of Congress

Card 1/1

1. Industry-Production-USSR

"Determination of Lectic Acid in Milk and Milk Products." 1933
"Determination of Prolonged Pasturization of Milk by the Shar-Gorli Process." 1934

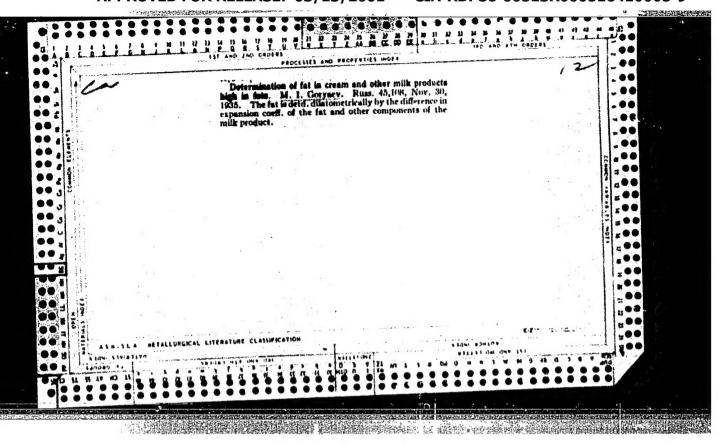
"Research on Milk and Products of Its Processing" 1934

from biography on author, published in Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41

GORYAYEV, Mikahil Ivanovich

"Simple Method of Determination of Chlorine Content according to Drost" 1934 from biography on author, published in

Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41



WORYAYEV, Mikhail Ivanovich

"A Manual for Laboratory Wprkers in Butter and Cheese Producing Plants" 1935 (2nd Edition, 1947)

from biography on author, published in Vestnik Akademii Nauk SS Kazakhetov SSR, No 12 (117), Dec 1954, UP 39-41

"Effect of Bichromate of Potassium in Canning of Milk on the Determination of the Percentage of Fat" (1935)
from biography on author, published in
Vestnik Akademii Nauk Kazakhstov SSR, No 12 (117), Dec 1954, pp 39-41

"Electroneutralization of Milk" 1935

from biography on author, published in
Vestnik Akademii Nauk SSR Kazekhstov SSR, Vol 12 (117), Dec 1954, pp 39-41

GORYAYEV, Mikhail Ivanovich

"Alkaline Index and Alkalinity in Milk" 1936
from biography on author, published in

Vestnik Akademii Nauk Kazakhstoy SSR, Nol 12 (117), Dec 1954, pp 39-41

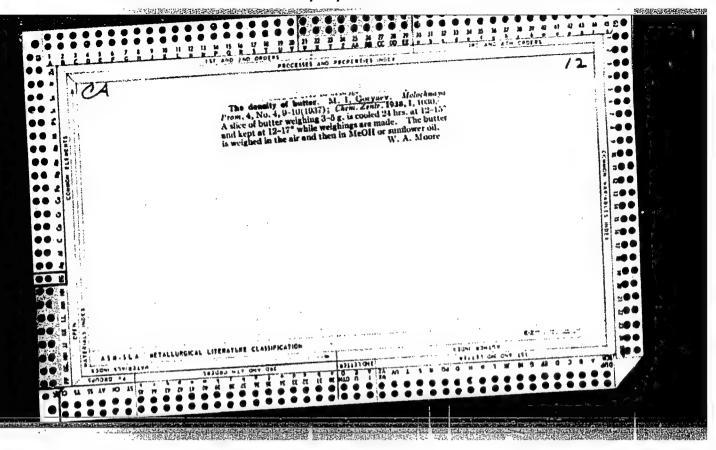
"Concerning the Addition of Aromatics to Butter" 1936
from biography of author, published in
Vestnik Akademii Nauk Kazakhstoy SSR, No 12 (117), Dec 1954, pp 39-41

GORYAYEV, Mikhail Ivanovich

"Determination of Sugar in Milk by the Iodometric Method" 1937

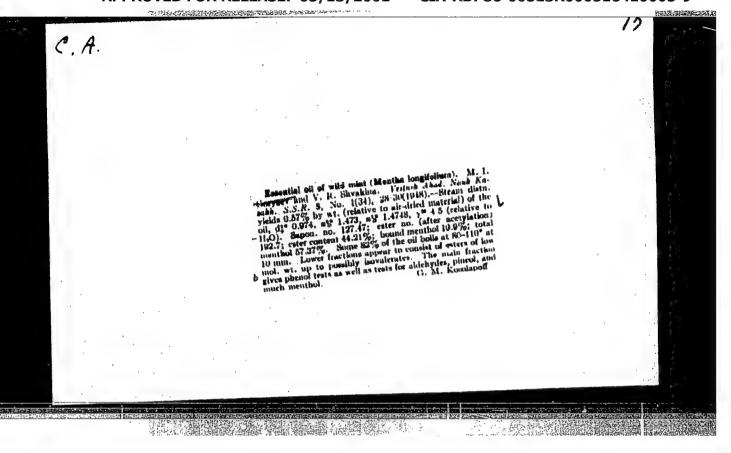
from Biography on author published ins

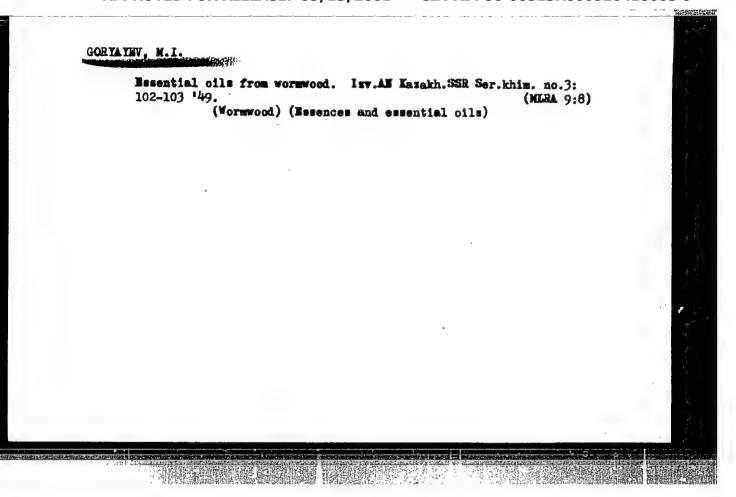
Testnik Akademii Nauk Kazakhetoy SSR, No 12 (117), December 1954, pp39-41



# "APPROVED FOR RELEASE: 03/13/2001

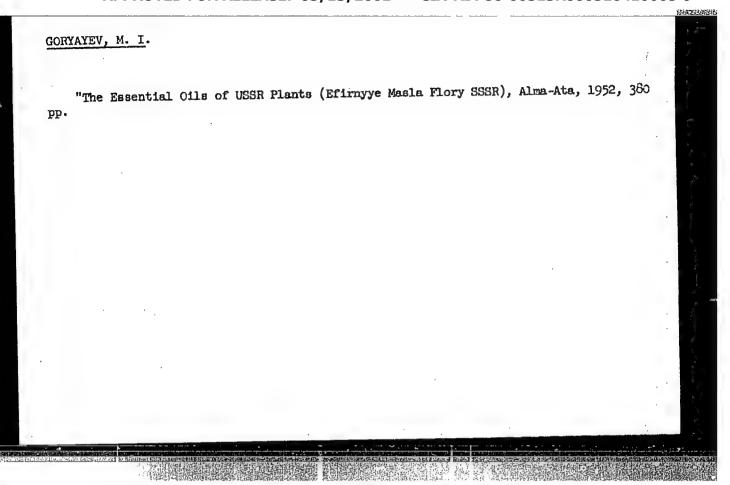
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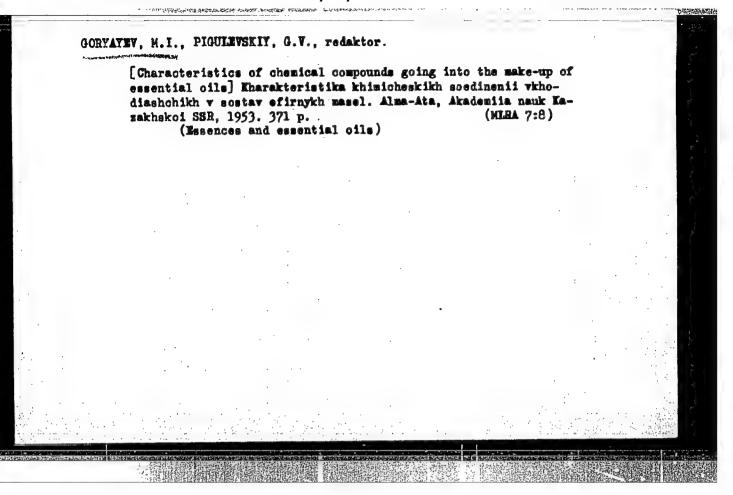


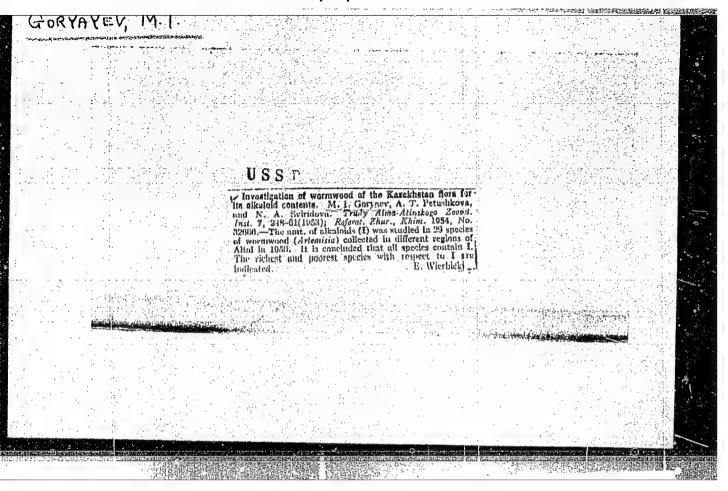
GORYAYEV, M.I. BAKANIKA, N.I.

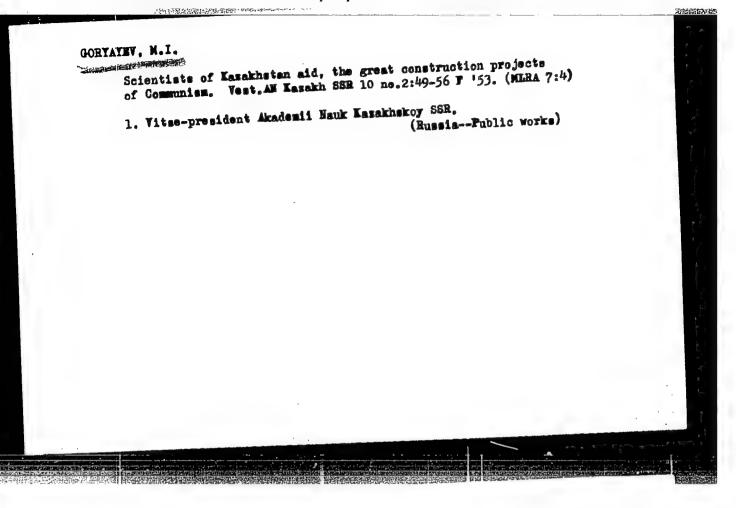
Study of the essential oil from Artenisia sublessingiana (Kell) H. Krasch. Izv.AN Kazakh. SSR Ser.khim. no.3:104-106 49. (MLRA 9:8) (Wormwood) (Essences and essential oils)



GORYAYEV, M. I. USSR/ Chemistry - Physical chemistry Card 1/1 Pub. 123 - 7/12 Authors Sokol'skaya, A. M., Candidate of Chem. Scs. Title Steroid saponin Periodical : Vest, AN Kaz, SSR 6/123, 69-84, June 1952 Abstract The molecular structure of steroid saponins, which are a group of ghycosides, is described. Fifty references: 4 USSR, 11 German and and 35 USA (1916-1954). Tables. Institution : Presented by: Active Member of the Acad. of Scs., Kaz. SSR., M. I. Goryasv.







CIA-RDP86-00513R000516410005-9" APPROVED FOR RELEASE: 03/13/2001

TEPLYAKOVA, Z.; KARAGUISHIYEVA, D.; GORYAYEV, M.I., deystvitel'nyy chlen.

Bacterial fertilisers and their effictiveness in the soils of Kazakhstan.
Vest.AN Kasakh.SSR 10 no.6160-67 Je '53.

1. Akademiya namk KasSSR (for Goryayev).

(Kazakhstan-Soil inoculation) (Soil inoculation-Kasakhstan)

CHIEHEVSKIY, A.L.; GORYAYEV, M.I.

Aeroionisation of buildings. Vest.AE Kasakh.SSR 10 no.9:34-44 & '53.

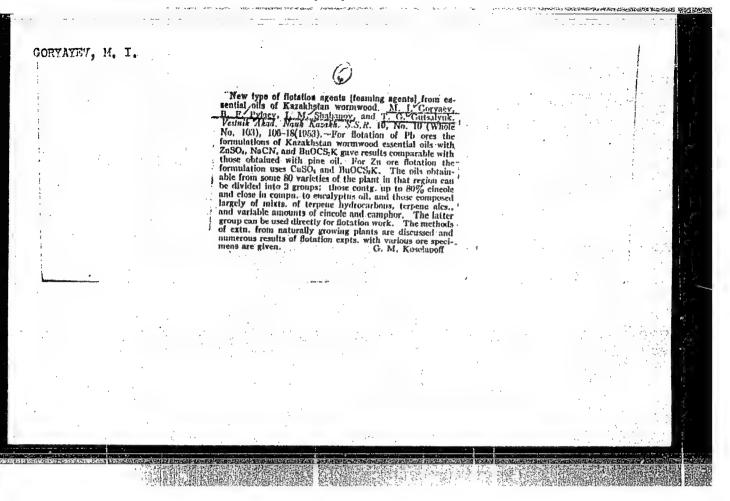
(MIRA 6:11)

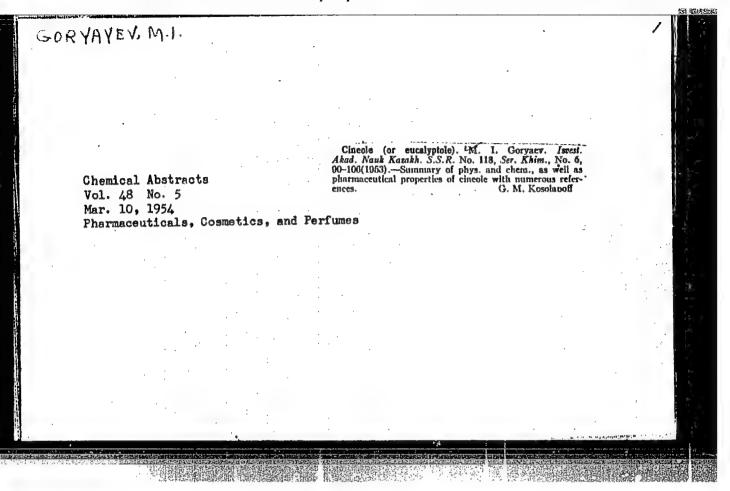
1. Deystvitel'nyy ohlen Akademii nauk Kasakhskoy SER (for Goryayev).

(Air, Ionized) (Air conditioning)

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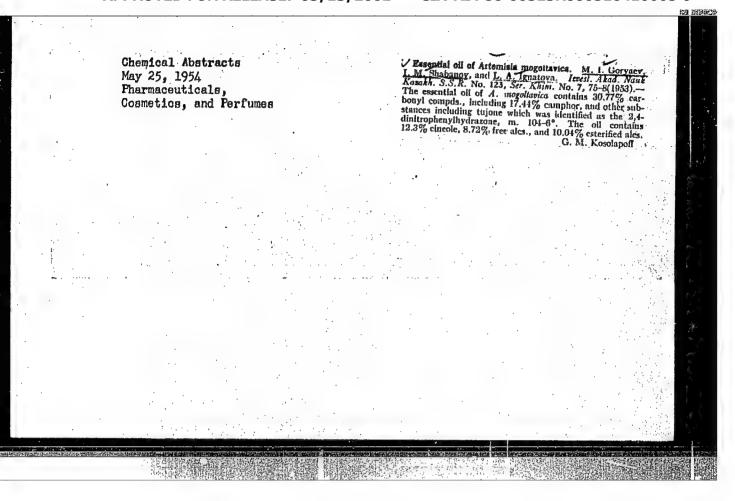
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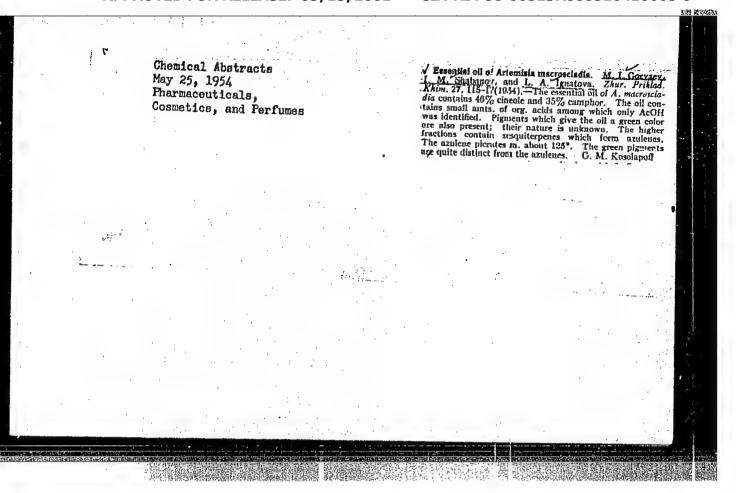
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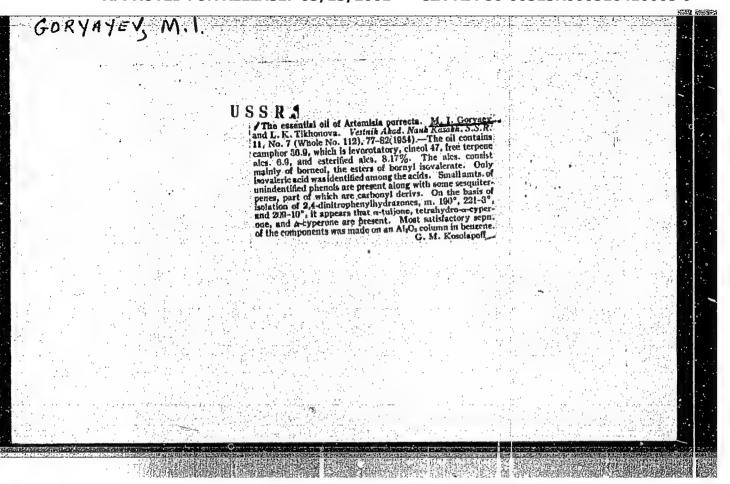
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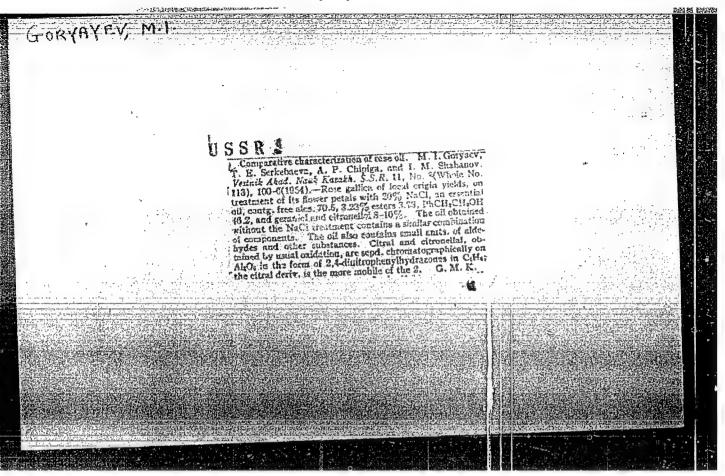


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# CIA-RDP86-00513R000516410005-9







USSR/Scientific Organization

Dard 1/1 Pub. 123 - 1/15

Authors : Goryaev, M. I., Vice President of the Acad. of Sis. of the Kas. SSR

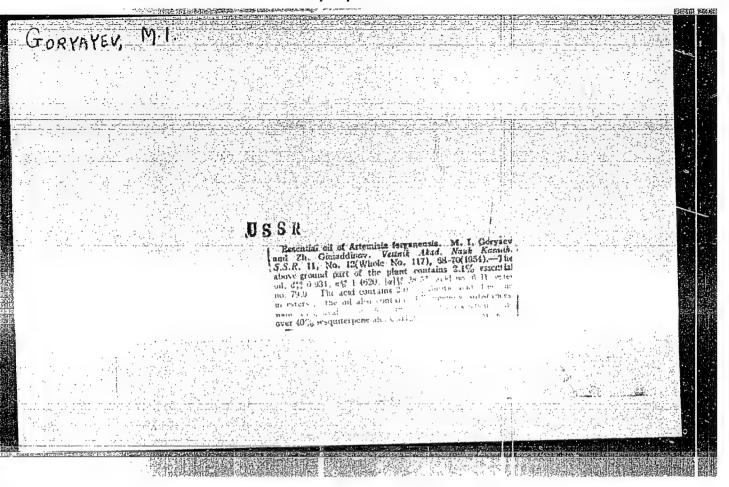
Title : The Academy of Sciences of the Kaz. SSR on the size of its new election

Pariodical : Vest. AN Kas. SSR 11/10, 3-15,0ct 1954

Abstract : A short sketch is presented of the history (7 years) of the Academy of Sciences of the Kaz. SSR in connection with the forthcoming election of Academy members.

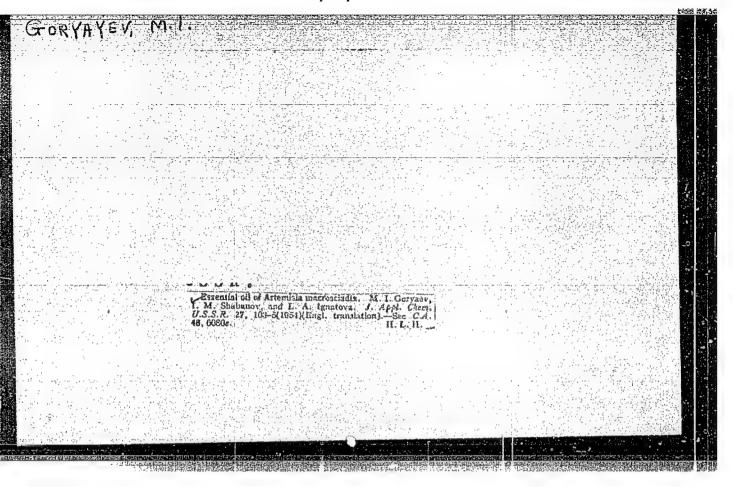
Institution : .....

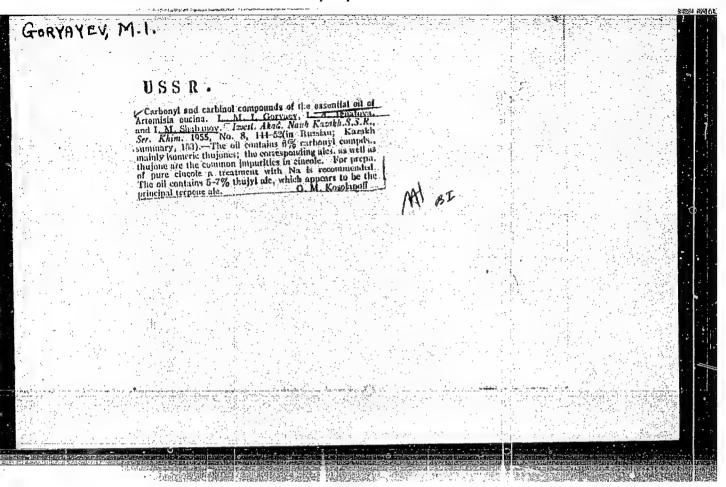
Submitted : .....

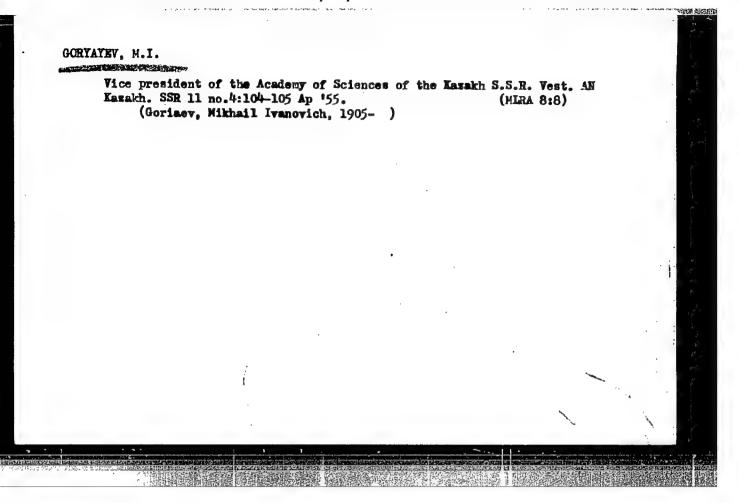


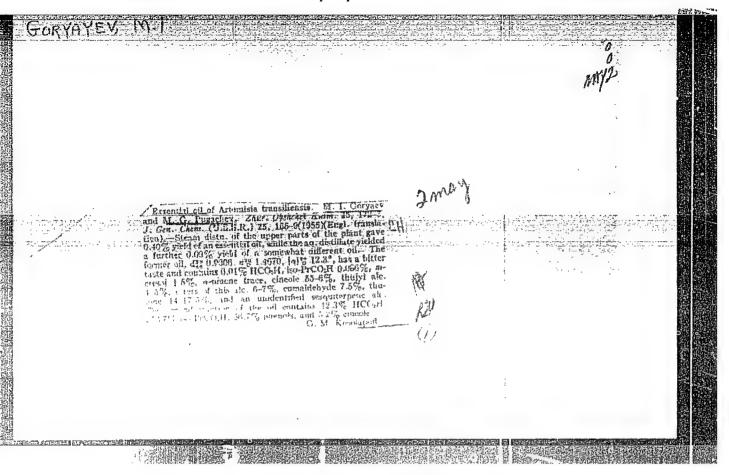
GORYATEV, M.I.; SHABANOV, I.M.; IGNATOVA, L.A.

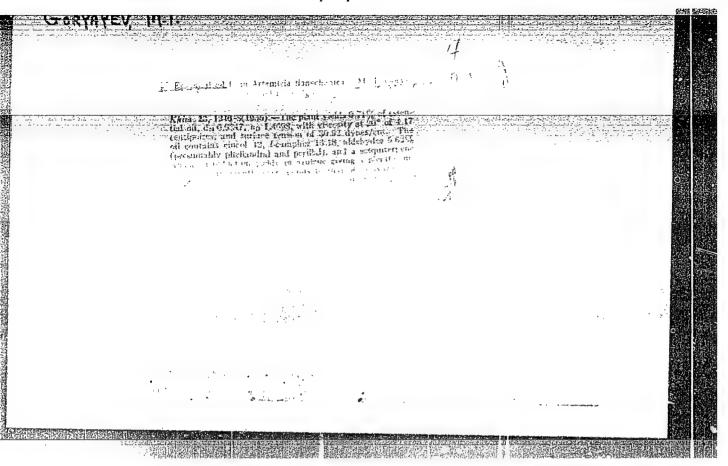
Study of the essential oil of Artemisia macrosciadia P.Pol.
Zhur.prikl.khim.27 no.1:115-117 Ja '54. (MIRA 7:3)
(Massences and essential oils) (Artemisia)

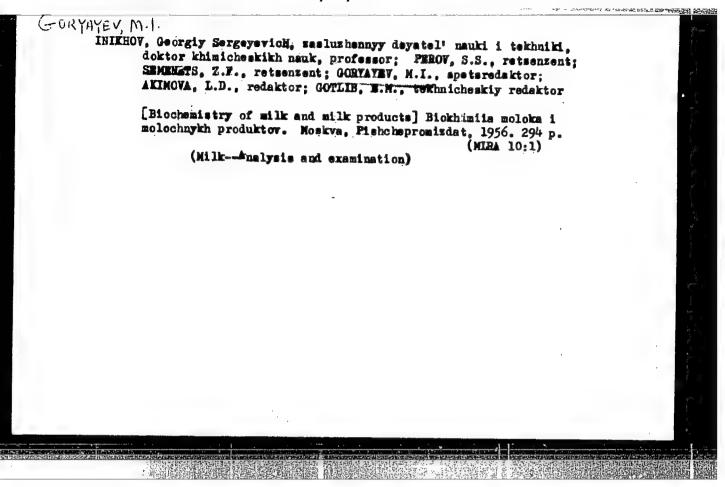




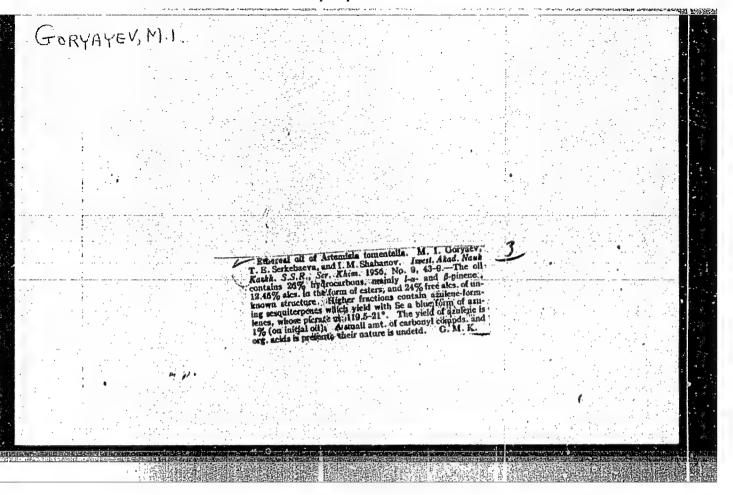


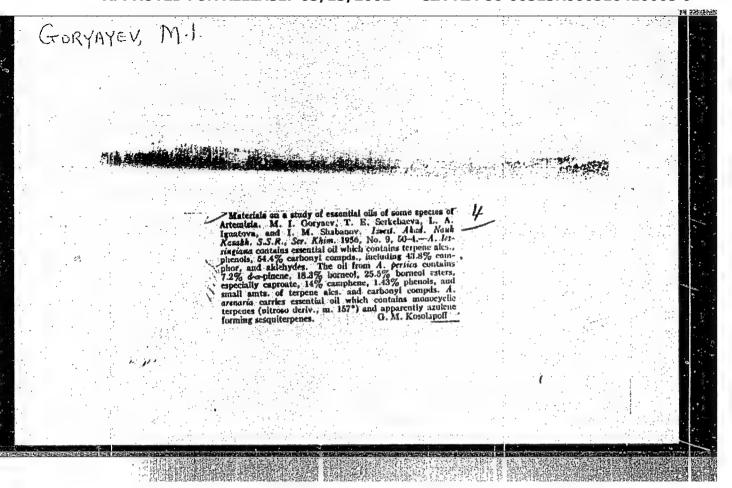


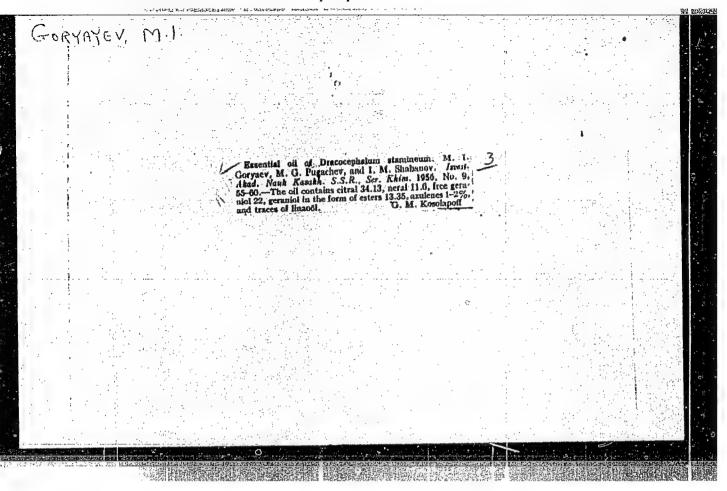




GORYAYEV	M.1.	3 5135238
		The state of the s
	Rthereal oil of Artemisia santolineflia. M. I. Gorynev. G. K. Kruglykhina, M. G. Pugachev, and I. M. Shabanov, Isveil. Akad. Nauk Kasakh. S.S.R., Ser. Khim. 1956, No. 9, 33-42.—The oil contains carbonyl compds. (mainly thujone and some fenchone) 30, camphor 3.7. free akes. (mainly composed of thujyl ake., 2.3% borneol, and some fenchyl ake.) 13.2, esters 19.24; cincole 1, org. ackis (HCO <sub>3</sub> H and isovakerk ackil) 8, phenols (mainly p-McC <sub>2</sub> H <sub>3</sub> OH) 9%, and unidentified terpenes and arulene-forming sesquiterpenes. A qual. test for aktehydes was found. G. M. K.	· · · · · · · · · · · · · · · · · · ·
		The second secon

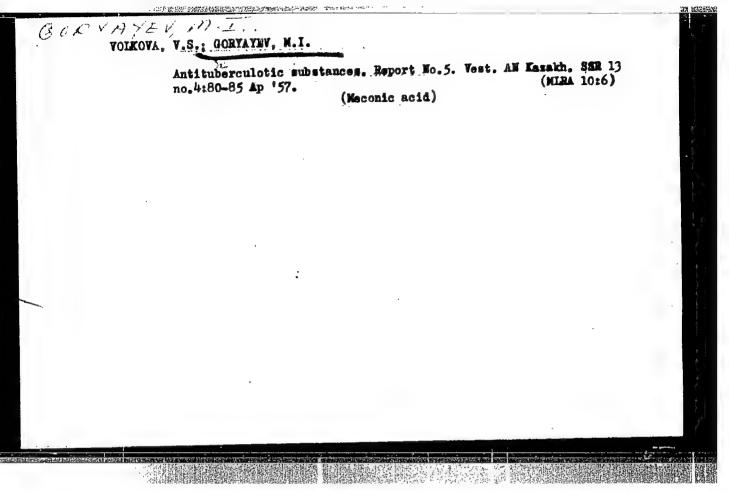


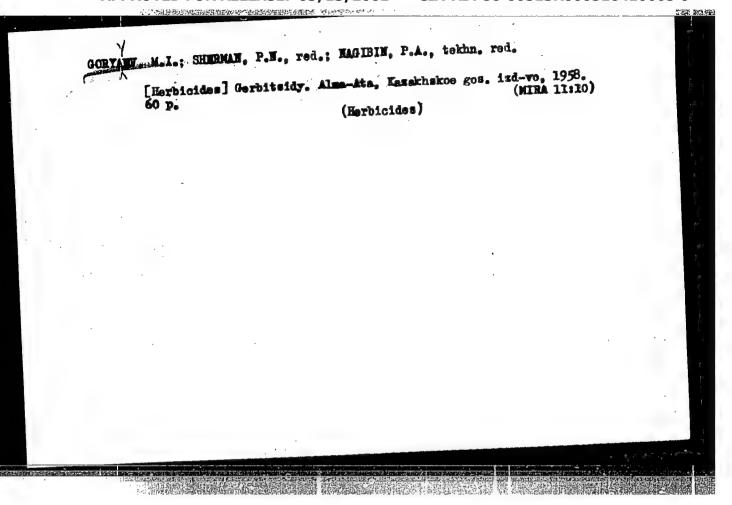


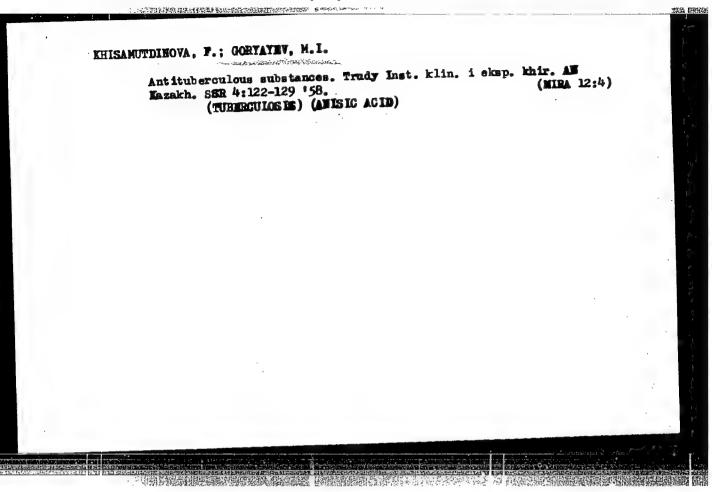


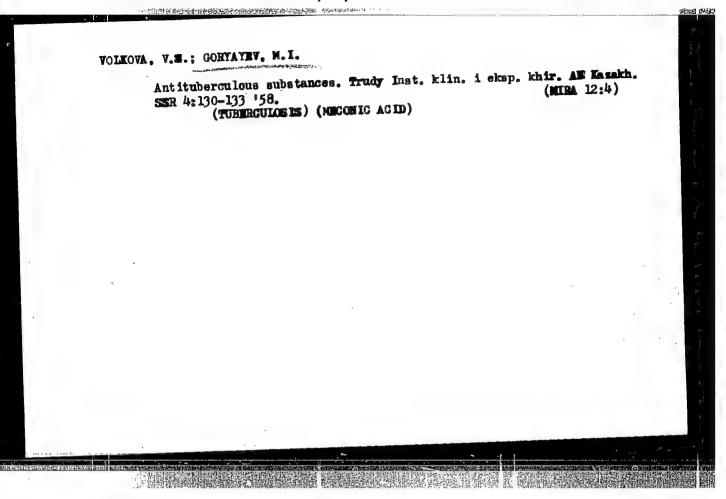
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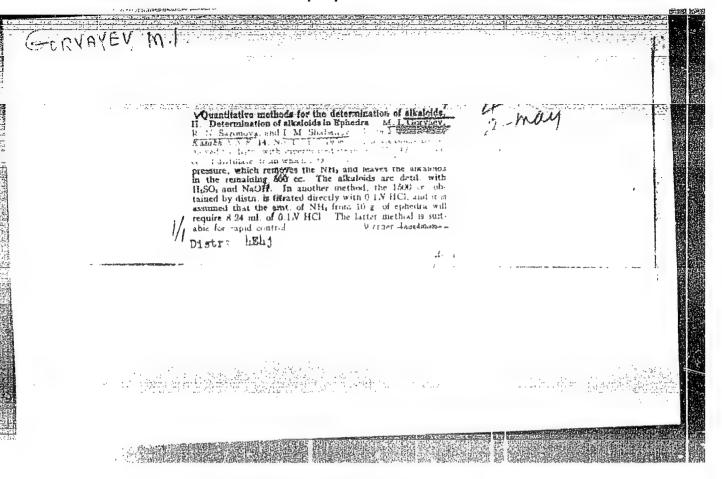
CIA-RDP86-00513R000516410005-9











AUTHORS:

Goryayev, M. I., Volkova, 7. S., Tolstikov, G. A.

TITLE:

On the Problem of Hydrogen Bonds in Meconic Acid (K voprosu o vodorodnoy svyasi v mekonovoy kislote)

FMRIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 23, Nr 8, pp. 2102-2107

ABSTRACT:

The structure of meconic acid (mekonovaya kislota) permits with good probability to assume the presence of an intrative the latter is, of type (I) or (II):

No. Card 1/3

Gard 1/3

On the Problem of Hydrogen Bonds in Meconic Acid

SOV/79-28-8-23/66

As is known (Refs 1-3), the presence of an intranolecular hydrogen bond in the molecule which contains a hydroxyl and a carboxyl group in the orthoposition causes a considerable change in the behavior of these groupings. No anomaly is detected in the molecular weight of chenols which contain this bond when they are determined in a neutral solvent, i.e. no reduction of the scidity of a complication of the ester formstion. The participation of the carboxyl group in the intramolecular hydrogen bond leads to the increase of the acidity, to a complication of the ester formation, and to a facilitation of the decarboxylation. On the strength of this position the authors investigated several derivatives of the 3-oxy-4-pyrons all of which were obtained from the meconic acid which was produced from the wate products of opium production, the "meconates". A stable intramolecular hydrogen hond was found to exist in meconic acid. This bond is an ingredient of a six-membered cycle. The dissock tion constants of meconic acid, of comenic acid (komenoveya kislota), and of pyromeconic acid according to the potentiometric titration were determined. The ester of 3-methoxy-4-pyrone-6-6arboxylio acid was obtained which is not yet described in the publications. Figure ? gives

Chard 2/3

#### "APPROVED FOR RELEASE: 03/13/2001

#### CIA-RDP86-00513R000516410005-9

On the Froblem of Hydrogen Bonds in Meconic Acid

901/79-28-8-23/66

the scheme of the molecule of the meconic acid with the mutual distance of the atoms. There are 4 figures, 2 tablec, and

12 references, 7 of which are Soviet.

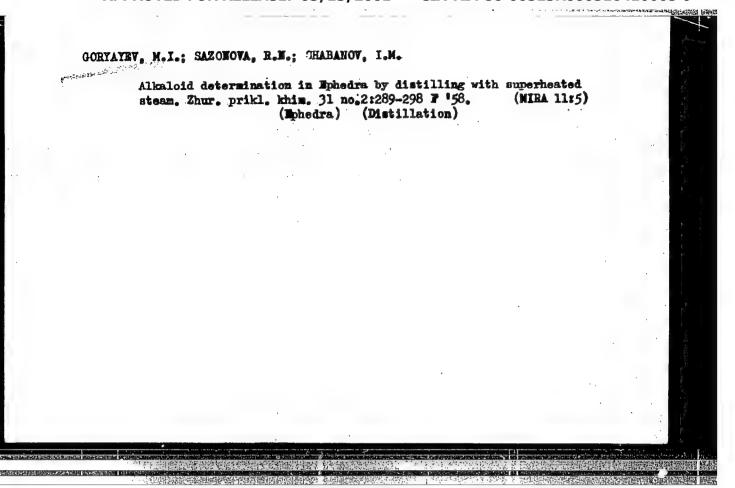
ASSCCIATION: Kezakhskiy gosudarstvennyy universitet

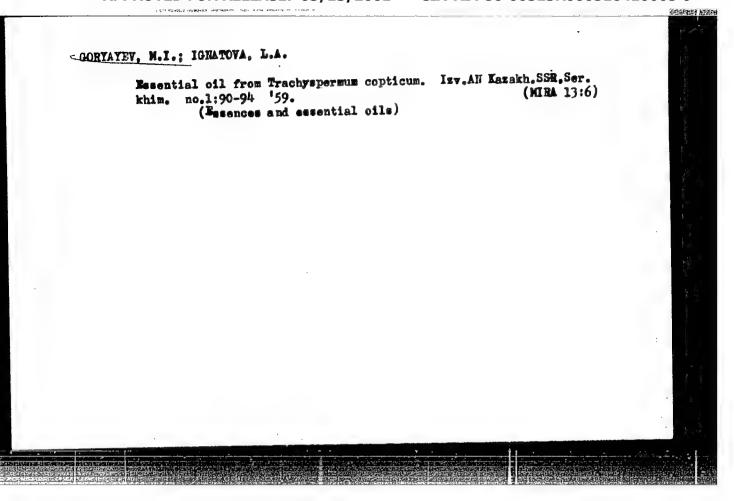
(Kazakh 45 State University)

SUBMITTED:

January 22, 1958

Card 3/3

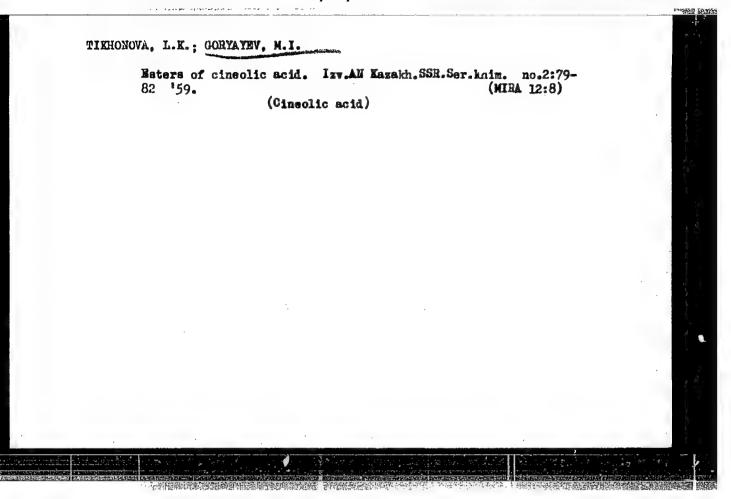


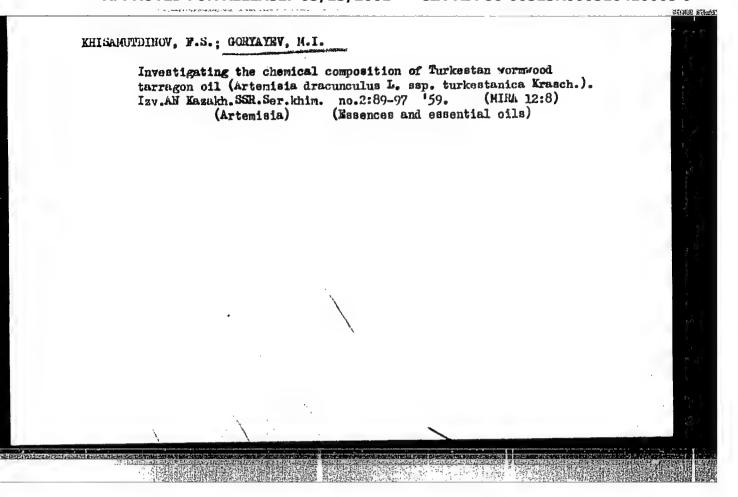


GORTATEV, M.L.; DEHALILOV, D.R.

Possibilities for industrial production of thujone. .Izv.AN;
Kazakh. SSR. Ser. khim. no.2:83-88 '59. (MIRA 12:8)

(Thujone)





GORYATEV, M.I.; FOLYAKOV, P.P.; SHARMOV, I.M.

Organization, methods, and results of expeditionary research on vegetable raw materials. Trudy Inst. khim. nauk AM Kazakh. SSR 4:3-16 159. (MIRA 13:3) (Kazakhstan-Botany, Bonomic) (Soviet Central Asia-Botany, Economic)

GORYAYEV, M.I.; SAZONOVA, R.M.; POLYAKOV, P.P.

Work results of the expedition for the study of wild aromatic plants
in southern Kasakhatan, organised by the Academy of Sciences of the
in southern Kasakhatan, organised by the Academy of Sciences of the
in southern Kasakhatan, Port No.2. Trudy Inst. khim. nauk AN Kasakh.

Kasakh S.S.R. in 1951. Report No.2. Trudy Inst. khim. nauk AN Kasakh.

SSR 4:17-23 \*59.

(Kasakhatan, Wormwood)

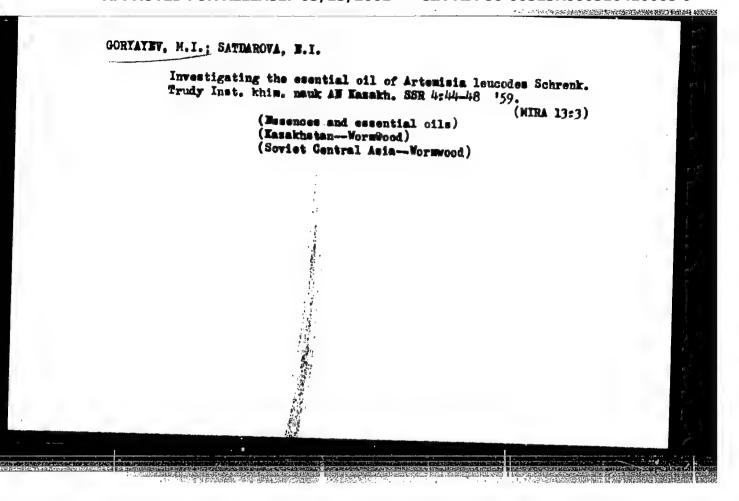
GORYAYEV, M.I.; SAZONOVA, R.N.; POLYAKOV, P.P.

Work results of the expedition of 1952 for the study of aromatic plants in Kasakhstan and Central Asia. Trudy Inst. khim. nauk AH Kasakh. SSR 4:24-29 '59. (MIRA 13:3)

(Kasakhstan--Worswood) (Soviet Central Asia--Worswood)

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Investigating the essential oil of Artemisia Serotina Ege.
Trudy Inst. khim. nauk AM Essakh. SSR 4:37-47 '59.

(Masences and essential oils)
(Essakhstam—Wormwood)
(Soviet Central Asia—Wormwood)
```



Investigating the essential oil of Artemisia terrae albae Krasch.

ssp. Massagetovii Krasch. Trudy Inst. khim. nauk AN Kasakh. SSR

lizug-56 '59. (Mira 13:3)

(Mira 13:3)

(Kasakhatan-Wormwood)

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CIA-RDP86-00513R000516410005-9

CIA-RDP86-00513R000516410005-9"

GCRYAYEV, M.I.; DZHALILOV, D.R.

Investigating the essential oil of Juniperus sabina L. Trudy Inst. khim. nauk AN Eazakh. SSR 4:57-67 59.

(MIRA 13:3)
(Kazakhstan--Juniper) (Zesences and essential oils)

GORYAYEV, M.I.; SAZOHOVA, R.N.; POLYAKOV, P.P.; BELOVA, Ye.A.

Santonin-bearing wormwood species of the subgenus Seriphidium (Bess.)
Rouy from Kasakhstan and Central Asia. Trudy Inst. khim. nauk AN Kasakh.
SSR 4:68-96 159.

(MIRA 13:3)

(Santonin) (Kasakhetan--Wormwood) (Soviet Central Asia--Wormwood)

GORYAYEV, M.I.; KRUGLYKHINA, G.K.; POLYAKOV, P.P.; SHABANOV, I.M.

Artemisia kurramensis Qasilb. as new source of santonin and thujone.

Artemisia kurramensis Wasilo. as new could be a serior of the serior of

(Santonin) (Thujone) (Kasakhstan--Wormwood)

GORYAYEV, M.I.; SAZOHOVA, R.N.

Effect of light on santonin solutions. Trudy Inst. khim. nauk AN
Kazakh. SSR 4:100-111 '59. (MIRA 13:3)

(Santonin) (Photochemistry)

GORYAYEV. M.I.; KRUGLYKHINA, G.K.; SATDAROVA, E.I.; KURINNAYA, N.V.;
SHARANOV, I.M.; POLYAKOV, P.P.

Materials on the study of alkaloid resources in the flora of Kazakhstan and some regions of Central Asia. Trudy Inst. khim. nauk AB Kazakh. SSR 4:112-122 159. (MIRA 13:3)

(Kazakhstan-Botany, Economic) (Soviet Central Asia-Botany, Economic) (Alkaloids)

GORYATEV, H.I.; SAZONOVA, R.N.; SATDAROVA, E.I.; SHARANOV, I.M.

Constancy of amide and ammonia nitrogen concentration in the ephedra in connection with alkaloid synthesis in plants. Trudy Inst. khim. nauk AN Kazakh. SSR 4:123-126 '59. (KIRA 13:3)

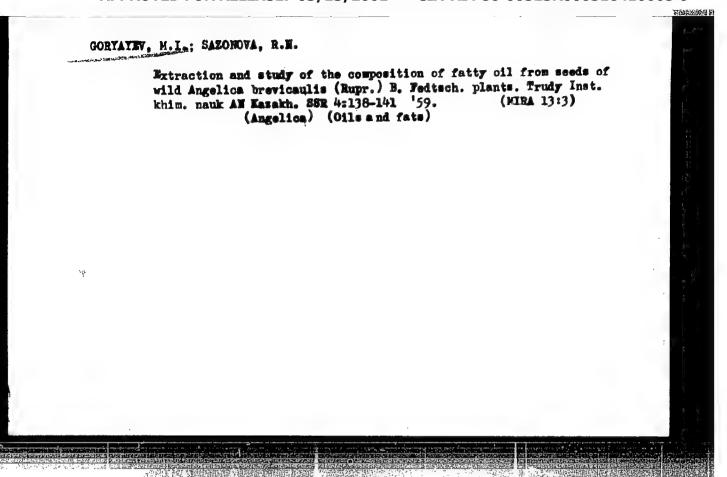
(Ephedra) (Alkaloids)

(MIRA 13:3)

CORYAYEV, M.I.: SATDAROVA, E.I.

Variation of mono- and disaccharide concentration in different apple varieties during storage. Trudy Inst. khim. nauk AE Easakh.

SSR 4:135-137 '59. (Apple-Storage) (Sugars)



#### "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516410005-9

5.3900

75683 S0V/80-32-10-32/51

AUTHORS:

Goryayev, M. I., Moshkevich, S. A., Sazonova, R. N.,

Shabanov, I. M.

TITLE:

Determination of the Ephedra Alkaloids by the Oxalate

Method

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2313-2320

(USSR)

ABSTRACT:

This is the third paper on the quantitative determination of alkaloids and deals with the determination of alkaloids of ephedra. The method is based on the solubility of alkaloids of ephedra, using oxalic acid. The oxalate of pseudoephedrine is readily soluble in cold water, but the oxalate of ephedrine is almost insoluble in water. For this purpose the alkaloid of ephedra is titrated with 2% oxalic acid until neutral to litmus. Determination of ephedrine and pseudoephedrine can be carried out by two methods: (1) alkaloids were isolated by the usual standard method, by infusion with 1% H<sub>2</sub>SO<sub>1</sub> and extraction with ether; (2) alkaloids were iso-

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lated from the plant by steam distillation. Besides

#### "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516410005-9

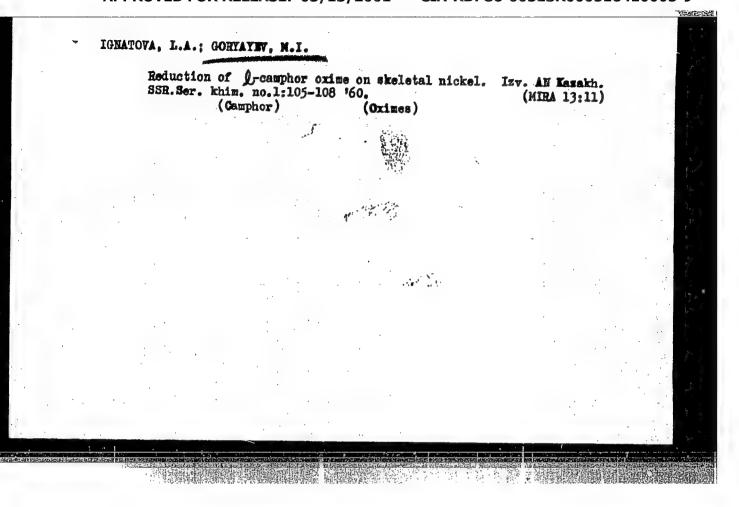
Determination of the Ephedra Alkaloids by the Oxalate Method

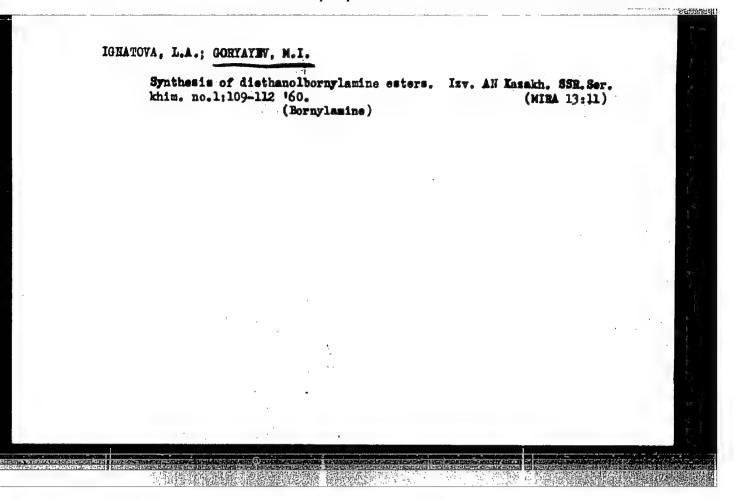
ephedrine and pseudoephedrine in the mixture of the ephedra alkaloids, insignificant amounts of 1-norephedrine and 1-N-methylephedrine were found. The basic ephedrine was isolated from the ephedrine oxalate. Ephedrine hydrochloride has mp 215-216°. A mixed mp determination of the obtained sample with ephedrine hydrochloride showed no depression. Khorenko, E. A., took part in the development of the above methods. There are 5 tables; and 14 references, 5 Soviet, 2 U.S., 3 German, 1 Chinese, 1 Jaranese, 1 French, 1 British. The 3 U.S. and British references are: Shou, T. Q., J. Biol. Chem., 70, 109 (1926); Black, O. F., and Kelly, J. W., Am. J. Pharm., 59, 12, 748 (1927); Smith, S., J. Chem. Soc., 2056 (1927).

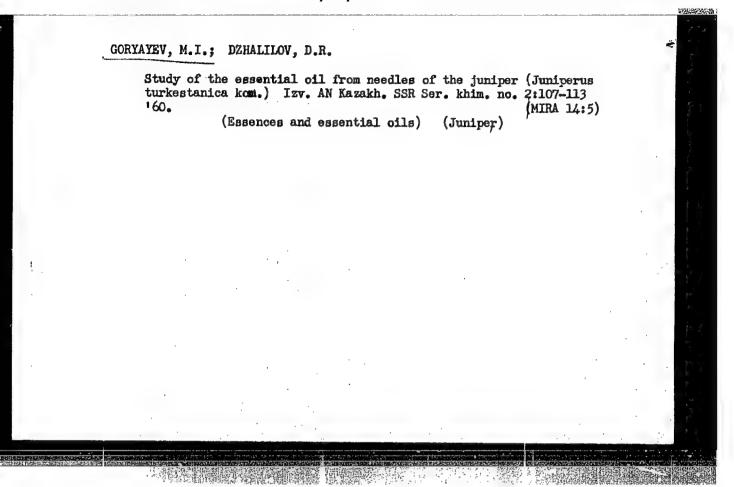
SUBMITTED:

May 23, 1958

Card 2/2







Antitumor preparations. Part 1: Synthesis of di-(2-chlorethyl)-amide
2-methyl-4-chlorphenoxyacetic acid and di-(2-chlorethyl)-hydraside
2-methyl-4-chlorphenoxyacetic acid. Trudy Inst. klin. i eksp. khir.
AN Kazakh. SSR 6:200-203 '60.
(ACETIC ACID)

(MIRA 13:12)

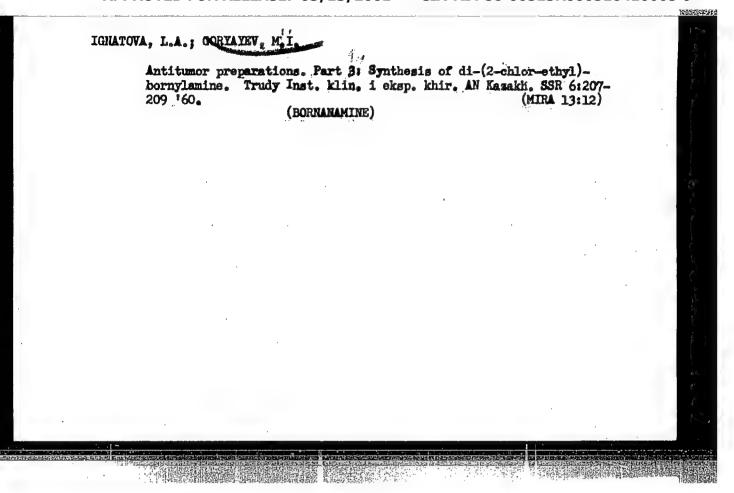
GORYAYEV, M.I.; DEMBITSKIY, A.D.

Antitumor preparations. Part 2: Synthesis of di-(2-chlorethyl)-amide 2,4-dichlorphenoxyacetic acid and di-(2-chorethyl)-amide Isonisotinic acid. Trudy Inst. klin. i eksp. khir. AN Kasakh. SSR 6:204-206 '60.

(MIRA 13:12)

(ACETIC ACID)

(ISONICOTINIC ACID)



5.5200,5.3610,5.3900

78245 sov/80-33-3-46/47

AUTHORS:

Goryayev, M. I., Sazonova, R. N., Moshkevich, S. A.,

Shabanov, I. M.

TITLE:

Brief Communication. Oxalic Method of Alkaloids Determination in Ephedra Using Permanganate Titration

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp 748-

750 (USSR)

ABSTRACT:

This is Communication IV of a series of studies on quantitative analytical methods for the determination of alkaloids. The authors developed a separative determination of ephedrine and pseudoephedrine in ephedra plants by titration of the alkaloid oxalates with

KMnO<sub>4</sub> in acid medium. A 2% aqueous solution of oxalic acid was added from a microburette to the mixture of alkaloids extracted from the plants with the standard

method, until a neutral litmus reaction was obtained. The mixture was then heated slowly until complete

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Brief Communication. Oxalic Method of Alkaloids Determination in Ephedra Using Permanganate Titration

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dissolution of the alkaloids. Cooling the solution to room temperature precipitated ephedrine oxalate in crystal form. The precipitate was dissolved with diluted sulfuric acid (1:100), heated to 80-90° C, and titrated while warm with O.1N solution of KMnOh.

Pseudoephedrine oxalate in the filtrate was titrated in the same manner. The new method takes only 2 days as compared with 3-4 days required by the old method prescribed by GOST and based on different solubilities of the two alkaloids in petroleum ether. There are 2 tables; and 9 references, 2 Chinese, 7 Soviet.

ASSOCIATION:

Alkaloid Laboratory of the Institute of Chemical Sciences, Academy of Sciences, Kazakh SSR (Laboratoriya

alkaloidov Instituta khimicheskikh nauk AN Kazakhskoy

SSR)

August 27, 1959

SUBMITTED: Card 2/2

GORYAYEV, M.I.; SERKEBAYEVA, T.Ye.

Study of the essential oil Fergyskia protanoides. Terpene fraction.

Izv.AN Kazakh. SSR. Ser.khim. no.1:107-111 '61. (MIRA 16:7)

(Essences and essential oils)

GORYAYEV, M.I.; SHARIPOVA, F.S.

Study of the high boiling fraction of the essential oil Perovskia angustifolia. 1zv.AN Kazakh. SSR. Ser.khim. no.1:112-118 '61. (MIRA 16:7)

(Essences and essential oils)

Hydrolysis kinetics of reed hemicellulose. Gidroliz. i lesokhim. prom. 14 no.3:9-10 '61. (MIRA 14:4)		
1. Institut khimicheskikh nav (Hemicullulose)	uk AN KazSSR. (Hydrolysis)	(Reed (Botany))
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VOLKOVA, V.S.; GORYAYEV, M.I., akademik

Antituberculosis agents. Report No.9: Synthesis of derivatives of 1-amino-3-oxy-4-pyriodone-6-carpoxylic acid. Vest.AN Kazakh.SSR 17 no.4:38-42 Ap 161. (MIRA 14:5)

1. Akademiya nauk KarSSR (for Goryayev).

(PIRIDONECARBOXYLIC ACID)

### "APPROVED FOR RELEASE: 03/13/2001

#### CIA-RDP86-00513R000516410005-9

GORYAYEV, M.I.; TOLSTINOV, G.A.

Compounds entering into the composition of essential cils. Part 1: Isomerization of ecdress oxide. Zhur. ob. khim. 31 no. 2:644-652 F '61. (MEM 14:2)

1. Institut khimicheskikh mark AN Kamakhskoy SSR. (Gedrene)

S/080/61/034/004/011/012 A057/A129

AUTHORS:

Goryayev, M. I., Tolstikov, G. A., Yel'chibekova, L. A.

TITLE:

On the preparation of monoperphthalic acid

PERIODICAL:

Zhurnal prikladnov khimii, v. 34, no. 4, 1961, 946 - 947

TEXT: In the present paper a method for preparation of monoperphthalic acid is described, based on an improvement of the method presented by E. Royals and L. Harrell (Ref. 3: J. Am. Chem. Soc., 77, 3405, 1955). Monoperphthalic acid is used, as well as perbenzoic acid, for epoxidation of unsaturated compounds. Monoperphthalic acid is usually prepared by H. Boehme's method (Ref. 1: Ber., 70, 379, 1937), but this method has some disadvantages. Royals and Harrell's method is based on mixing phthalic Anhydride, 30 % hydrogen peroxide and diethylether at room temperature for 24 hours. The present authors tested this method and observed that the indicated yield of 65 % can be attained already after a time of mixing of only 6 hours. If the procedure is carried out at 30 - 35°C a yield of 65 - 70 % is obtained in 3 - 4 hours. Increasing the used hydrogen peroxide amount to a double amount makes possible to obtain monoperphthalic acid with a 63 - 65 % yield after mixing for 1 hour at 30 - 35°C. The following proce-

On the preparation of monoperphthalic acid

S/080/61/034/004/011/012 A057/A129

dure was carried out in the present experiments: After mixing the three components for a certain time at a given temperature (see table) the ethernal layer was washed 3 - 4 times with 40 % ammonium sulfate solution and dried with calcinated sodium sulfate. The amount of active oxygen was determined iodometrically. Extraction of the aqueous layer with ether increase the monoperphthalic acid yield by 4-5%. In all experiments 30 g (0.2 mole) phthalic anhydride and 200 ml ether were used. Monoperphthalic acid obtained by one of the procedures (see table) was used for the oxidation of cedrene by the following method 40.8 g (0.2 mole) of cedrene was oxidized at 0°C in the ethereal solution of monoperphthalic acid, containing 3.50 g (0.22 mole) of active oxygen. The mixture was left to stand at 0°C for 24 hours, the precipitated phthalic acid was filtered off and washed with ether, then the ethereal solution was washed several times with 5 % NaOH solution and subsequently with water, and was dried with sodium sulfate. After vacuum distillation 39.7 g (90%) of cedrene oxide with a boiling point of 121 - 121.5°C (5 mm),  $n_D^{20} = 1.4962$ ,  $d_L^{20} = 1.0032$ ,  $[OL]_L^{20} = 81.2°$  was obtained. There is 1 table and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

SUBMITTED: July 16, 1960

Card 2/3

GORYAYEV, M.I., ekademik; TOLSTIKOV, G.A.

Synthesis of β-cedrene. Dokl. AN SSSR 139 no.2:363-366 Jl '61.

(MIRA 14:7)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KarSSR (for Goryayev).

(Cedrene)

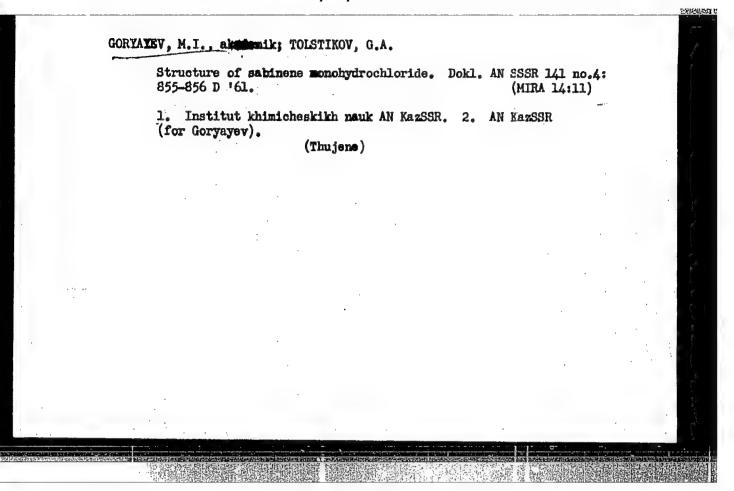
POTAPOV, V.M.; GORYAYEV, M.I., akademik; TOLSTIEOV, G.A.; TERENT'YEV, A.F.

Rotatory dispersion of cedrane series compounds. Dokl. AM SSSR

Rotatory dispersion of cedrane series compounds. Dokl. AN SSSR 140 no.6:1341-1344 0 '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. 2. AN Kazakhskoy SSR (for Goryayev). 3. Chlen-korrespondent AN SSSR (for Terent'yev).

(Cedrane)



GORYAYEV, M.I.; BAZALITSKAYA, V.S.; POLYAKOV, P.P.; MENZHULINA, N.A., red.; KHUDYAKOV, A.G., tekhn. red.

[Chemical composition of wormwoods]Khimicheskii sostav polynei.
Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1962. 151 p.

(MIRA 16:3)

(Wormwood) (Plants—Chemical analysis)

GORYAYEV, M.I.; SEITOV, Z.S.; DENISENKO, L.Ye.

Drying by sublimation pure cultures of fodder and wine yeasts.
Trudy Inst.mikrobiol.i virus.AN Kazkah.SSR 6:171-173 '62.

(YEAST—DRYING) (FREEZE-DRYING)

(MIRA 15:8)

IBRAYEV, G.Zh.; GORYAYEV, M.I.

Separation of furfurole by gas-liquid chromatography. Gidroliz.
i lesokhim.prom. 15 no.8125-26 '62.9 (MIRA 15:12)

1. Institut khimicheskikh nauk AN KazSSR.
(Furaldehyde) (Gas chromatography)

GORYAYEV, M.I.; TOLSTIKOV, G.A.

Study of the substances entering into the composition of essential cils. Part 2: Condensation of sabinene with diazoacetic ester.

Zhur. ob. khim. 32 no.1:310-312 Ja '62. (MIRA 15:2)

1. Institut khimicheskikh nauk AN Kasakhskoy SSR.

(Sabinene) (\*cetic acid)

(Essences and essential cils)

RADAKOV, G.A.; GORYAYEV, M.I.; TOISTIKOV, G.A.

Catalytic transformations of terpenes. Part 9: Isomerization of sabinene by means of metatitanic acid. Zhur. ob. khim. 32 no.1: 312-315 Ja '62. (MIRA 15:2)

1. Institut khimicheskikh neuk AN Kazakhskoy SSR. (Sabinene) (Titanic acid)

S/079/62/032/003/006/007 D204/D302

AUTHORS:

Goryavev. N.I. and Tolstikov, G.A.

TITLE:

Study of compounds occurring in volatile oils. IV. Reduc-

tion of the A-oxide of cedrene (A)

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 3, 1962, 997-999

TEXT: Reduction of A with LiAlH<sub>4</sub> (in 300% excess) gave, after boiling for 24 hours, 35% of pseudocedrol and some isocedrenol. Catalytic hydrogenation of A on skeletal Ni or Adams' Pt did not proceed at 40°C and atmospheric pressure. At 110°C and under a pressure of 130 atm of H<sub>2</sub>,

A yielded 66% of isocedranol. Full experimental details are given. There are 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: A. Moor, J.Am.Chem.Soc. 78, 1173, (1956),

ASSOCIATION:

Institut khimicheskikh nauk An Kaz. SSR (Institute of Chemi-

cal Sciences AS Kazakhskaya SSR)

SUBMITTED:

February 7, 1961

Card 1/1